ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/03 Date Received: 10/24/03

Project: Metro Self Monitor, PO# M102993, F&BI 310231

Date Extracted: 10/30/03 Date Analyzed: 10/30/03

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	<u>Chromium</u> <u>Copper</u> <u>Nickel</u> <u>Z</u>	<u>inc</u>
M102993	0.31 0.42 0.26 <	0.05
310231-01		
Method Blank	<0.05 <0.05 <0.05	0.05

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QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 310273-01 (Duplicate)

				Relative		
	Reporting	Sample	Duplicat	e Percent	Acceptanc	e
Analyte	Units	Result	Result	Difference	Criteria	ag
Chromium	mg/L (ppm)	0.40	0.41	2	0-20	
Copper	mg/L (ppm)	0.59	0.62	5	0-20	
Nickel	mg/L (ppm)	0.50	0.58	15	0-20	
Zinc	mg/L (ppm)	< 0.05	0.23	nm	0-20	

Laboratory Code: 310273-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	ery Acceptance
Analyte	Units	Level	Result	MS	Criteria
Chromium	mg/L (ppm)	2	0.40	100	80-120
Copper	mg/L (ppm)	2	0.59	106	80-120
Nickel	mg/L (ppm)	4	0.50	99	80-120
Zinc	mg/L (ppm)	2	< 0.05	115	80-120

Laboratory Code: Laboratory Control Sample

	alian a	Reporting	Spike	% Recove	ery % Recov	ery Acceptan	ce RPI)
Analyte		Units	Level	LCS	LCSI) Criteria	(Limit	20)
Chromium		mg/L (ppm)	2	111	107	80-120	4	
Copper		mg/L (ppm)	2	113	111	80-120	2	
Nickel		mg/L (ppm)	4	107	105	80-120	2	
Zinc		mg/L (ppm)	2	111	112	80-120	1	

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

310231			SA	MPLE CHA	IN OF C	US'	roı	ΟY		•		M	1	0/2	4/9	23	***	
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	A				AME/NO.						PO# URNAROUND							
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City, State, ZIP Seatte up Stay			REMARKS										SAMPLE DISPOSAL Dispose after 30 days					
Phone #_206-382-87) Fax #									An Inc					Retu	rn sa	amples with instr	
										ANA	LYS	ES RI	EQU	EST	ED			
Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	3TEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	C2 5~52					3	Notes
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 3, 2003

DUPLICATE COPY

INVOICE # 03ACU1103-5

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M102993, F&BI 310231 - Results of testing requested by Gerry Thompson for material submitted on October 24, 2003.

FEDERAL TAX ID * (b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 3, 2003

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on October 24, 2003 from the Metro Self Monitor, PO# M102993, F&BI 310231 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlene Morrow

Charlene Morrow

Chemist

Enclosures ACU1103R.DOC